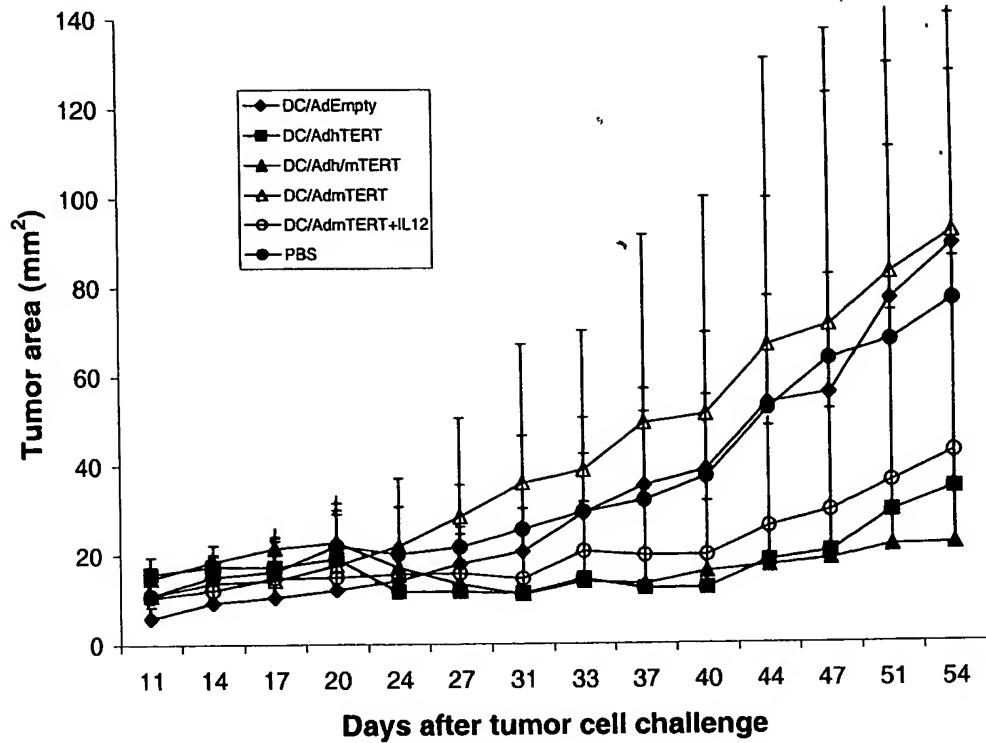
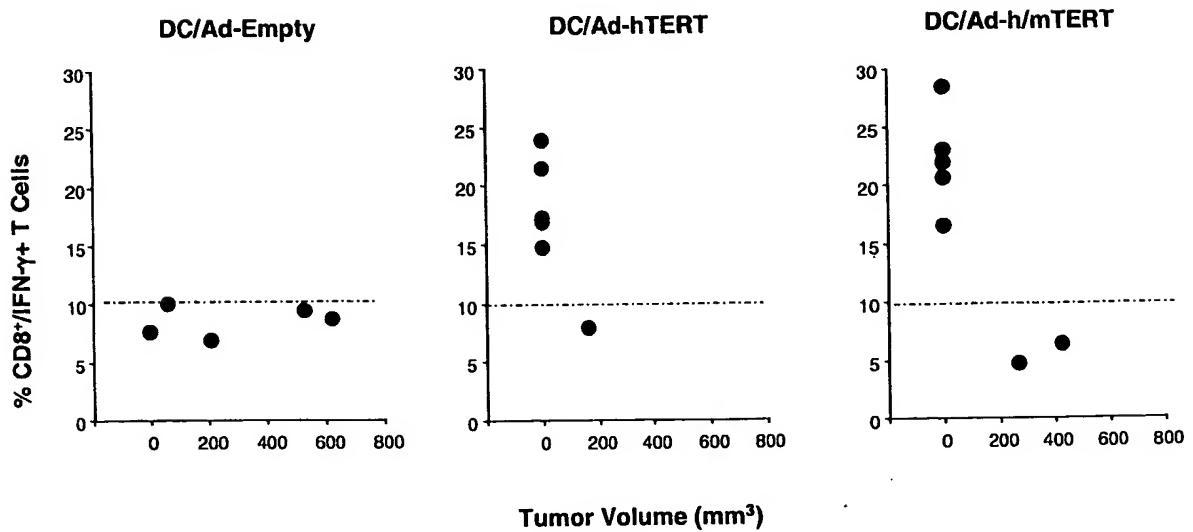


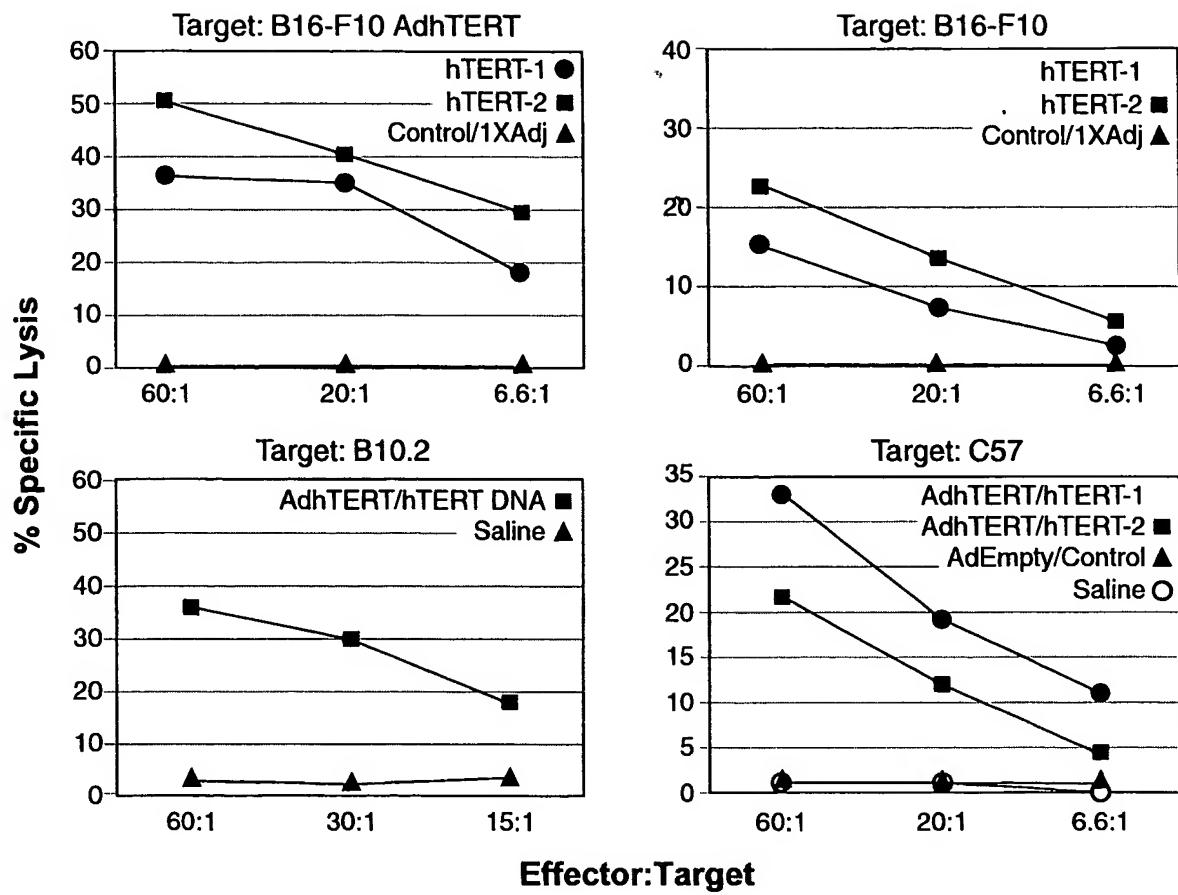
**Figure 1**



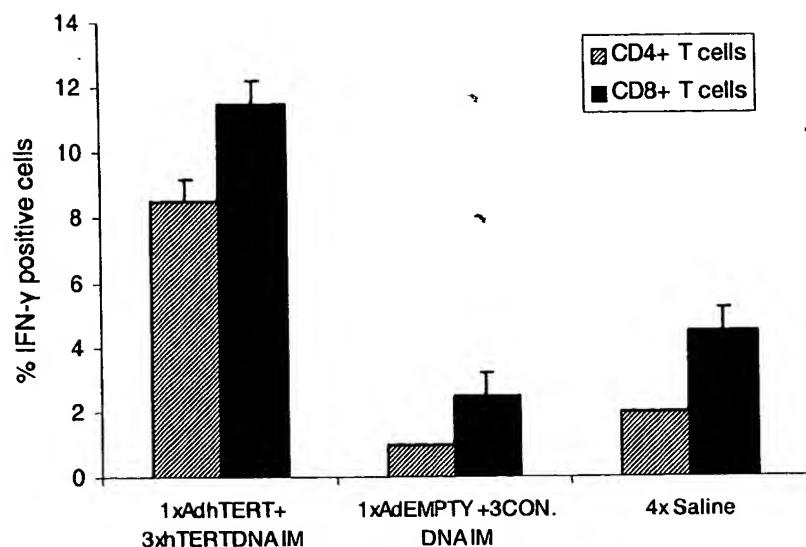
**Figure 2**



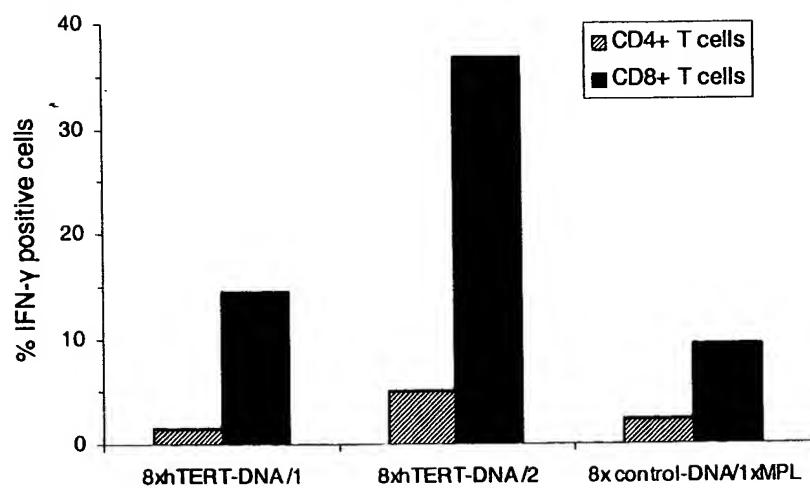
**Figure 3**



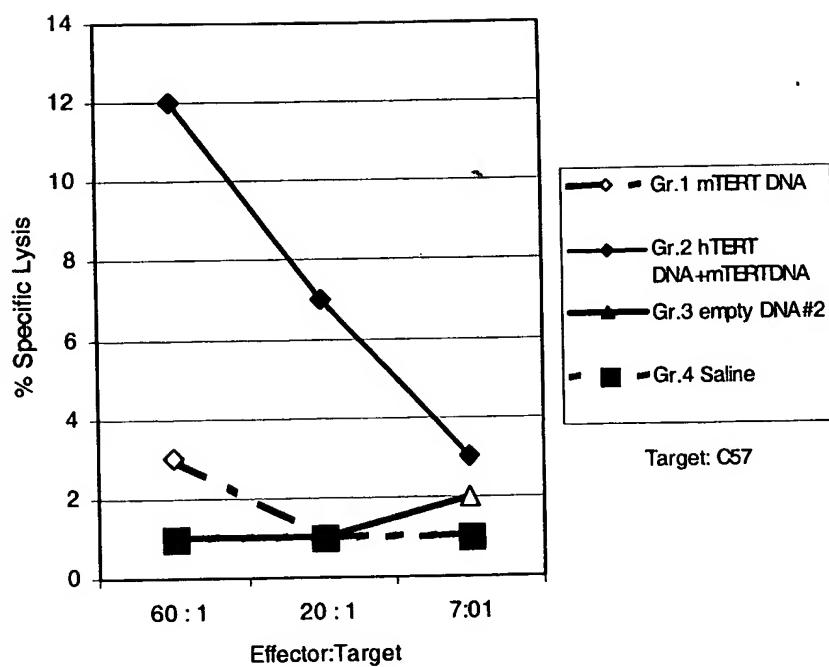
**Figure 4(A)**



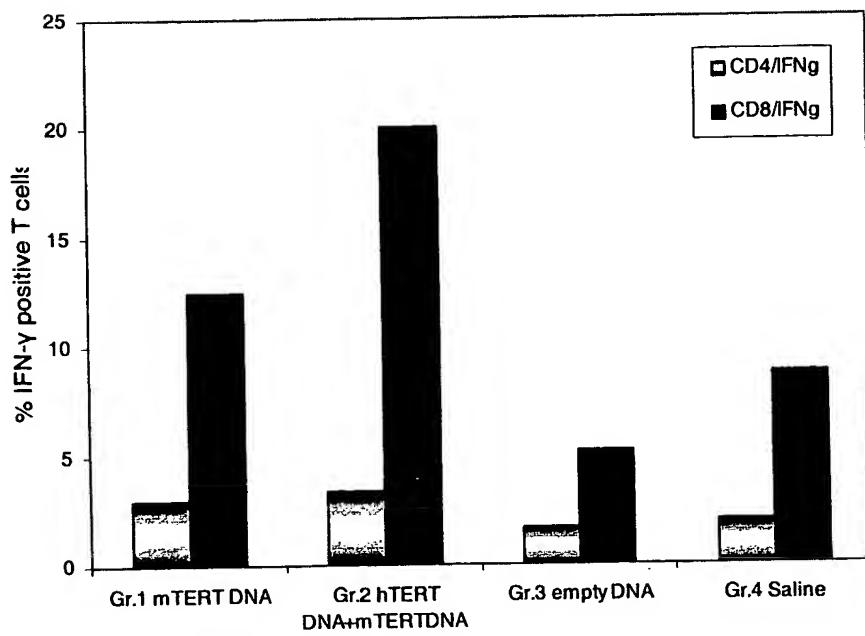
**Figure 4(B)**



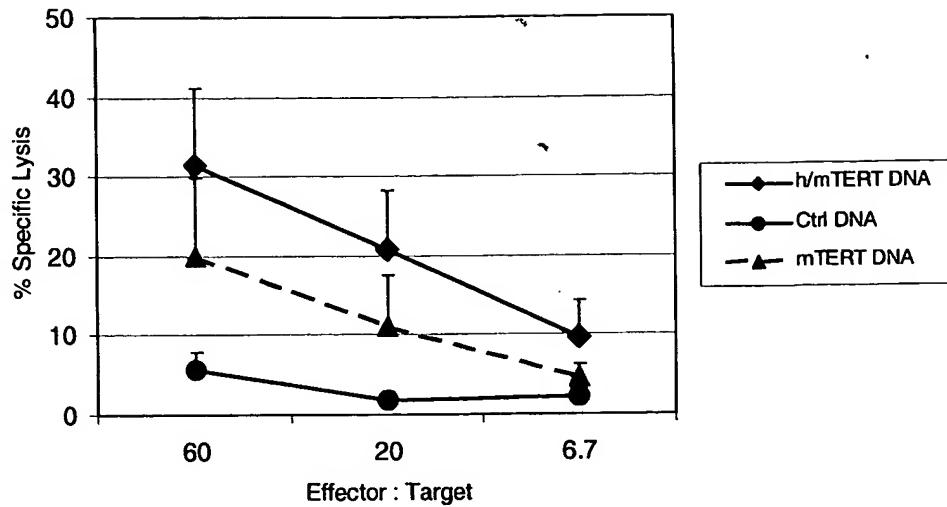
**Figure 5(A)**



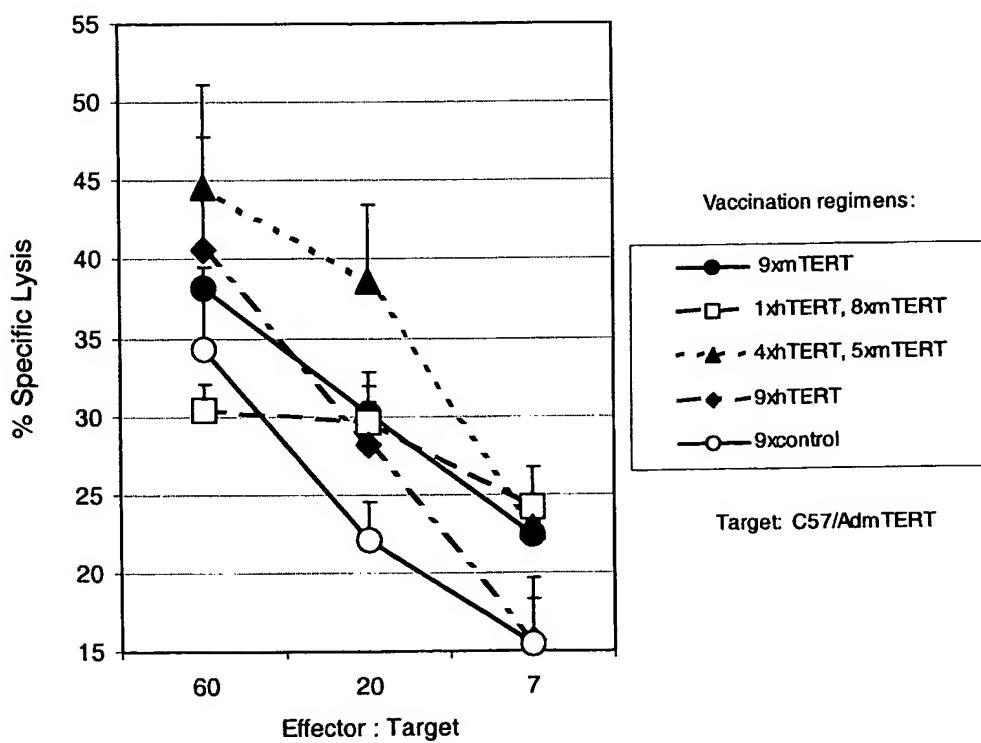
**Figure 5(B)**



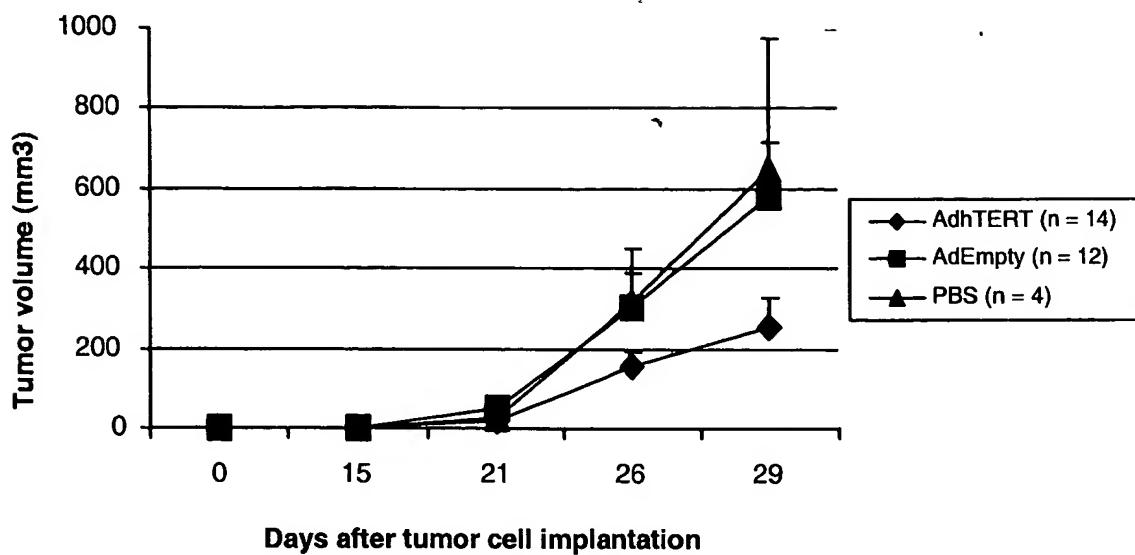
**Figure 6**



**Figure 7**



**Figure 8**



**Figure 9(A)**

Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	1 MPRAPRCRAV RSLLRSHYRE VLPLATFVRR LGPQGWRLVQ RGDPAAFRAL MTRAPRCAV RSLLRSRYRE VWPLATFVRR LGPEGRRLVQ PGDPKIYRTL MPRAPRCRAV RALLRSQYRQ VWPLATFVRR LGPEGRQLVQ PGDPKVRTL ----- MPRAPRCRAV RALLRGRYRE VLPLATFLRR LGPPGRLLVR RGDPAAFRAL MPRAPRCRAV RALLRSHYRE VLPLATFVRR LGPEGRRLVQ PGDPAAFRAL	50
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	51 VAQCLVCVPW DARPPPAAPS FRQVSCLKEL VARVLQRLCE RGAKNVLAFG VAQCLVCMHW GSQPPPDLQS FHQVSSLKEL VARVVQRLCE RNERNVLAFG VARCLVCVPW DSQPPPDLQS FHQVSSLKEL VARVVQRLCE RGERNVLTFG ----- VAQCLVCVPW GARPPPAAPC FRQL-----A-----FG VAQCLVCVPW GARPPPAAPS FHQVSSLKEL VARVVQRLCE RGERNVLAFG	100
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	101 FALLDGARGG PPEAFTTSVR SYLPNTVTDA LRGSGAWGLL LRRVGDDVLV FELLNEARGG PPMAFTSSVR SYLPNTVIET LRVSGAWMLL LSRVGDDLLV FALLNGAQGG PPMTFTTSVR SYLPNSVTES LRVSGAWMLL LNRVGDDLLV ----- FALLDGARGG PPVAFTTSVR SYLPNTVTET LRGSGAWGLL LRRVGDDVLT FALLDGARGG PPMAFTTSVR SYLPNTVTET LRGSGAWGLL LRRVGDDLLV	150
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	151 HLLARCALFV LVAPSCAYQV CGPPLYQLGA ATQARPPPH A SGPRRR----- YLLAHCALYL LVPPSCAYQV CGSPLYQICA TTDIWPSSA SYRPTRPVGR YLLARCALYL LVPPSCAYQV CGSPLYQICA TAETWPSVR IYRPTRPVGR ----- HLLARCALYL LVAPSCAYQV CGPP----- STTSAPPPLC RSRPR----- HLLARCALYL LVAPSCAYQV CGPPLYQIGA TTQARPPPH A SGRRRPVGR	200
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	201 ----LG-CER AWNHGVREAG VPLGLPAPGA RRRGGGSASRS LPLPKRPRRG NFTNLRLFLQQ IKSSSRQEAP KPLALPSRT KRHLSLTSTS VPSAKKACR NFTHLGSTHR VRNSSHQEAW KPPPLPSREA KRSLSITNRS VPPSKKARCD ----- ----- PLPAPRSAG R-----ARD LRPTRQARTR NFTNLGFcer AWNHGVREAG VPLGLPSPGA KRRGGGSASRS LPLPKKARRG	250
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	251 AAPEPERTPV GQGSWAHPGR TRGPDSDRGFC VVSPARPAEE ATSLEGALSG PVPRVEEGPH RQVLPTPSGK SWVPSPARSP EVPT---AEK DLSSKGKVSD LAPRLEKGPY RQAVPTPSDK TWVPNPAKSH AVPISRTTKE DLSSGVKAPG ----- PARGSPERSS GSASQWRSRR RHRPSQATAP VASR----- VYTCAKPQ AAPEPERTPV GQGSWTPSGR TRVPSDAGSP VVSPARPAEE DLSSKGKVSD	300
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	301 TRHSHPSVGR QHHAGPPSTS RPPRPWDTPC PPVYAETKHF LYSSGDKEQL LSLSGSVCKK HKPSS-TSLL SPPRQNAFQL RPFIETRHFL YSRGDGQERL LSRSGSVCYK HKPSS-TSLQ SPLCQNAFQL RPYTETKRFL YSREGGRERL ----- LAWEGL---GP PDSSNHPSLD TSPGPQGVPH DPAHPETKRF LYCSGGRERL LSLSGSVCKK HKPSSPPSLS SPPRPNAFQL RPVYAETKHF LYSSGGRERL	350

**Figure 9(B)**

Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	351	RPSFLLSSLR PSLTGARRLV ETIFLGSRPW MPGTPRRLPR LPQRYWQMRP NPSFLLSNLQ PNLTGARRLV EIIFLGSRRP TSGPLCRTHR LSRRYWQMRP NPSFLLNNLQ PSLTGARRLV EILFLGMRPR TSGPLCGRRR LSKRYWQMRP ----- RPSFLLSALP PTLG-ARKLV ETIFLGSAPQ KPGAARRMRR LPARYWRMRP RPSFLLSNLQ PSLTGARRLV ETIFLGSRPW TSGPLCRTHR LSRRYWQMRP	400
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	401	LFLELLGNHA QCPYGVLLKT HCPLRAAVTP AAGVCAREKP QGSVAAPEE- LFQQLLVNHA ECQYVRLLR HCRFRNTANQQ VTDALNTSPP ----- LFQQLLVNHA RCPYVRLLR HCRFRTAAHQ VAGALNTTSP Q----- ----- LFQEELLGNHA RCPYRALLRT HCPLRAMAAK EGSGNQAHRG VGICPLERPV LFQEELLGNHA RCPYVRLLR HCPRLRAATP VAGALNTSPP QGSVAAPEEV	450
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	451	-----EDTDPR RLVQLLRQHS SPWQVYGFVR ACLRRLVPPG LWGSRHNERR -----HLMDDLRLHS SPWQVYGFRL ACLCKVVSAS LWGTRHNERR -----RLMNLLRLHS SPWQVYGFQL ACVGKLVPPG LWGSRHNQRR ----- AAPQEQT DST RLVQLLRQHS SPWQVYAFRL ACLCWLVP TG LWGSRHNQRR AAPQEQT DST RLMQLLRQHS SPWQVYGFRL ACLCKLVPPG LWGSRHNERR	500
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	501	FLRNNTKKFIS LGKHAKLSLQ ELTWKMSVRD CAWLRRSPGV G----- FFKNLKKFIS LGKYGKLSLQ ELMWKMKVED CHWLRSSPGK D----- FFKNVKRFIS LGKYDKLSLQ ELTWKMKVQD CRWLRSSPGN N----- ----- FLRNVKKFIS LGKHAKLSLQ ELTWKMKVRD CTWLHGNPGE ECRVSRCLVG FLKNVKKFIS LGKHAKLSLQ ELTWKMKVRD CAWLRSPPGY E-----	550
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	551	-----CVPA AEHRLREEIL AK---FLHWL MSVYVVELLR SFFYVTETTF -----RVPA AEHRLRERIL AT---FLFWL MDTYVVQLLR SFFYITESTF -----CVPA AEHRTRERIL AV---FLFWL MDAYVVELLR SFFYVTETTF -----R SFFYITESTF LQEGPGSQPE CGRPLPPNHP S-EHPFLCWA GSDCPACLSA PRRLPSQTSPH -----SVPA AEHRLRERIL AKEHPFLFWL MSVYVVELLR SFFYITESTF	600
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	601	QKNR-----LFFYRK SVWSKLQS-----IG IRQHLKRVQL QKNR-----LFFYRK SVWSKLQS-----IG VRQHLERVRL QKNR-----LFFYRK SMWRRLQS-----IG VRHHLERVRL QKNR-----LFFYRK SVWSKLQS-----IG VRQHLERVRL PQRLLPGCPHL LPGVMRHHEM SSWWRPSSPY PGHTWLLIGC APQLFNSVHL QKNR-----LFFYRK SVWSKLQS-----IG VRQHLERVRL	650
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	651	RELSEAEVRQ HREARPALLT SRLRFIPKPD GLRPIVNMDY VVGARTFRRE RELSQEEVRH HQDTWLAMPI CRLRFIPKPN GLRPIVNMSY SMGTRALGRR QELSQEEVRQ RQEAWPAMPI CRLRFIPKPS GLRPIVNMSY -MGTRAFDKG RELSQEEVRH HQDTWLAMPI CRLRFIPKPN GLRPIVNMSY SMGTRALGRR RELSEAEVRR HREARPALLT SRLRFLPKPS GLRPIVNMDY IMGARTFHLD RELSQEEVRQ HQEAWPAMPI CRLRFIPKPN GLRPIVNMSY SMGTRAFGRR	700

**Figure 9(C)**

Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	701	KRAERLTSRV KALFSVLNYE RARRPGLLGA SVLGLDDIHR AWRTFVLRVR KQAQHFTQRL KTLFSMLNYE RTKPHPLMGS SVLGMNDIYR TWRAFVLRVR KQAQHFTQCL KTLFSVLNYE LTKHTNLLGA SVLGLNDIYR TWRTFVLRVR KQAQHFTQRL KTLFSMLNYE RTKPHPLMGS SVLGMNDIYR TWRAFVLRVR KKVQHLTSQ KTLFSVLNYE RARRPSLLGA SMLGMDIHR AWRTFVLRIR KQAQHFTQRL KTLFSVLNYE RTKPHPLLGA SVLGMNDIYR TWRTFVLRVR	750
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	751	AQDPPPELYF VKVDVTGAYD TIPQDRLTEV IASIIKP-QN TYCVRYYAVV ALDQTPRMYF VKADVTGAYD AIPPGKLVEV VANMIRHSES TYCIRQYAVV TLDPAAPRMYF VKADVTGAYD AIPQDKLVEV IANMIRHPDN SYCIHQYAVV ALDQTPRMYF VKADVTGAYD AIPPGKLVEV VANMIRHSES TYCIRQYAVV AQNPAQQLYF VKVDVTGAYD ALPQDRLVEV IANVIRPQES TYCVRHYAVV ALDPTPRMYF VKADVTGAYD AIPQDKLVEV IANMIRHSES TYCIRQYAVV	800
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	801	QKAAGHVRK AFKSHVSTLT DLQPYMRQFV AHLQETSP-- LRDAVVIEQS RRDSQGVVK SFRRQVTTLS DLQPYMGQFL KHLQDSDASA LRNSVVIIEQS QRDRQGQIHK SFRRQVSTLS DLQPHMGQFL KHLQDSDTSA LRNSVVIIEQS RRDSQGVVK SFRRQVTTLS DLQPYMGQFL KHLQDSDASA LRNSVVIIEQS QRTARGHVRK AFKR----- QRDAQGVVK SFRRQVSTLS DLQPYMGQFL KHLQDSDASA LRNSVVIIEQS	850
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	851	SSLNEASSGL FDVFLRFMCH HAVRIRGKSY VQCQGIPQGS ILSTLLCSLC ISMNESSSSL FDFFLHFLRH SVVKIGDRCY TQCQGIPQGS SLSTLLCSLC LSLNEASSSL FDFFLRFVRN SVVKIGGRCY VQCQGIPQGS SLSTLLCSLC ISMNESSSSL FDFFLHFLRH SVVKIGDRCY TQCQGIPQGS SLSTLLCSLC ----- ISLNEASSSL FDFFLRFLRH SVVKIGGRCY VQCQGIPQGS SLSTLLCSLC	900
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	901	YGD MENKLFA GIRRDGLLLR LVDDFLLVTP HLTHAKTFRL TLVRGVPEYG FGDMENKLFA EVQRDGLLL R FVDDFLLVTP HLDQAKTFLS TLVHGVP EY G FGDMENKLFA EVQQDGLLL R FVDDFLLVTP HLVAEAFLR ALVRGIPEYG FGDMENKLFA EVQRDGLLL R FVDDFLLVTP HLDQAKTFLS TLVHGVP EY G ----- FGDMENKLFA EVQRDGLLL R FVDDFLLVTP HLDQAKTFLS TLVRGVPEYG	950
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	951	CVVNLRKTVV NFPVEDEALG GTAFVQMPAH GLFPWCGLLL DTRTLEVQSD CMINLQKTVV NFPVEPGTLG GAAPYQLPAH CLFPWCGLLL DTQTLLEVFC D CMINLQKTVV NFPVDAGTLG GTAPHQLPAH CLFPWCGLLL DTQTLLEVLC D CMINLQKTVV NFPVEPGTLG GAAPYQLPAH CLFPWCGLLL DTQTLLEVFC D ----- CMINLQKTVV NFPVEPGTLG GTAPYQLPAH CLFPWCGLLL DTQTLLEVFC D	1000
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	1001	YSSYARTSIR ASLTFNRGFK AGRNMRRKLF GVLRLKCHSL FLDLQVNLSQ YSGYAQTSIK TSLTFQSVFK AGKTMRNKLL SVLRLKCHGL FLDLQVNLSQ YTGYARTSIK ASLTFQRTFK AGRNMRRQKLL AVLRLKCHSL FLDLQMNSQ YSGYAQTSIK TSLTFQSVFK AGKTMRNKLL SVLRLKCHGL FLDLQVNLSQ ----- YSGYARTSIK ASLTFQRVFK AGKNMRNKLL SVLRLKCHSL FLDLQVNLSQ	1050

**Figure 9(D)**

Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	1051 TVCTNIYKIL LLQAYRFHAC VLQLPFFHQV WKNPTFFLRV ISDTASLCYS TVCINIYKIF LLQAYRFHAC VIQLPFDQRV RKNLTFFLGI ISSQASCCYA TVCINVYKIF LLQAYRFHAC ALQLPFDQHV RKNPAFFLSI ISNIASCCYS TVCINIYKIF LLQAYRFHAC VIQLPFDQRV RKNLTFFLGI ISSQASCCYA ----- TVCINIYKIF LLQAYRFHAC VIQLPFDQRV RKNPTFFLGI ISSQASCCYA	1100
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	1101 ILKAKNAGMS LGAKGAAGPL PSEAVQWLCH QAFLLKLTRH RVTYVPLLGS ILKVKNPGMT LKAS---GSF PPEAAHWLCY QAFLLKLAAH SVIYKCLLGP ILKVKNAGMT LKAKGASGSF PPEAARWLCY QAFLLKLAGH SVTYKCLLGP ILKVKNPGMT LKAS---GSF PPEAAHWLCY QAFLLKLAAH SVIYKCLLGP ----- ILKVKNAGMT LKAKGAAGSF PPEAAHWLCY QAFLLKLAAH SVTYKCLLGP	1150
Human_TERT_protein mouse_TERT_protein Hamster_TERT_protein Rat_TERT_protein Dog_TERT_protein Consensus	1151 LRTAQQTQLSR KLPGTTLTAL EAAANPALPS DFQTIILD- LRTAQKLLCR KLPEATMTIL KAAADPALST DFQTIILD- LRTAQKQLCR KLPRATMAIL ETAADPALST DFQTIILD- LRTAQKLLCR KLPEATMTIL KAAADPALST DFQTIILD- ----- LRTAQKQLCR KLPEATMTIL EAAADPALST DFQTIILD-	1188

**Figure 10(A)**

		1	
Human_TERT_cds		ATGCCCGCGC	CTCCCCGCTG CCGAGCCGT CGCTCCCTGC TGCGCAGCCA
Mouse_TERT_cds		ATGACCCCGCG	CTCCTCGTTG CCCC CGGGT CGCTCTCTGC TGCGCAGCCG
Hamster_TERT_cds		ATGCCCGCGC	CGCCCCQTTG CGGGGCGGTG CGCGCTCTGC TGCGCAGTC
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		ATGCCCGAG	CGCCCCCGGTG CGCGCCCTGC TGCGGGGCCG
Consensus		ATGCC-CGCG	C-CCCG-TG CCG-GCCGTG CGC-C-CTGC TGCGCAGCC-
		51	
Human_TERT_cds		CTACCGCGAG	GTGCTGCCGC TGGCCACCGT CGTGC GGCGC CTGGGGGCC
Mouse_TERT_cds		ATACCAGGAG	GTGTGGCCGC TGGCAACCTT TGTGC GGCGC CTGGGGCCCG
Hamster_TERT_cds		ATACCGTCAG	GTGTGGCCGC TGGCAACCTT CGTGC GGCGC CTGGGACCTG
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		CTACCGGGAG	GTGCTGCCGC TGGCCACCTT CCTGC GGCGC CTGGGGGCC
Consensus		-TACCG-GAG	GTG--GCCGC TGGC-ACCTT CGTGC GGCGC CTGGGGGCC-
		101	
Human_TERT_cds		AGGGCTGGCG	GCTGGTGCA CGCGGGGACC CGGGCGCTTT CCCGCGCGCTG
Mouse_TERT_cds		AGGGCAGGCG	GCTTGTCAA CCCGGGGACC CGAAGATCTA CCCGACTTTG
Hamster_TERT_cds		AGGGCAGGCA	GCTTGTACAA CCCGGGGACC CAAAGGTCTT CCCGACAGTTG
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		CGGGCCGGCT	GCTCGTGCAG CGCGGGGACC CGGGCGCTT CCCGCGCGCTG
Consensus		AGGGC-GGC-	GCT-GTGCA- C-CGGGGACC CG--GG-CTT CCCG-CG-TG
		151	
Human_TERT_cds		GTGGCCCACT	GCCTGGTGTG CGTGCCTGG GACGCACGGC CGCCCCCCC
Mouse_TERT_cds		GTTGCCCAAT	GCCTAGTGTG CATGCACTGG GGTCACAGC CTCCACCTGC
Hamster_TERT_cds		GTGGCCCGGT	GCCTAGTGTG TGTGCCTGG GACTACAAC CTCCACCTGC
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		GTGGCGCAGT	GCCTGGTGTG CGTGCCTGG GGCGCGCGC CGCCCCCCC
Consensus		GTGGCCCACT	GCCT-GTGTG CGTGCCTGG G-C-CAC-GC C-CC-CC-GC
		201	
Human_TERT_cds		CGCCCCCTCC	TTCCGCCAGG TGTCCCTGCCT GAAGGAGCTG GTGGCCCGAG
Mouse_TERT_cds		CGACCTTCC	TTCCACCAGG TGTCACTCCCT GAAAGAGCTG GTGGCCAGGG
Hamster_TERT_cds		TGACCTTCC	TTCCACCAGG TGTCACTACT GAAGGAGCTG GTGGCCAGGG
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		CGCCCCGTGC	TTCCGCCAG- -C-----
Consensus		CG-CC--TCC	TTCC-CCAGG TGTC-T--CT GAA-GAGCTG GTGGCC-G-G
		251	
Human_TERT_cds		TGCTGCAGAG	GCTGTGCAGAG CGCGGGCGGA AGAACGTGCT GGCCCTCGGC
Mouse_TERT_cds		TTGTGCAGAG	ACTCTGCAGAG CGCAACGAGA GAAACGTGCT GGCTTTGGC
Hamster_TERT_cds		TCGTGCAGAG	ACTCTGCAGAG CGCGGGCGAGA GGAACGTGCT GACTTTGGC
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		-----	-----T GGCTTTGGC
Consensus		T--TGCAGAG	-CTCTGCAGAG CGC--CG-GA --AACGTGCT GGCTTT-GGC
		301	
Human_TERT_cds		TTCGCGCTGC	TGGACGGGGC CCGCGGGGGC CCCCCCGAGG CCTTCACCA
Mouse_TERT_cds		TTTGAGCTGC	TTAACCGAGGC CAGAGGCAGG CCTCCCATGG CCTTCAC
Hamster_TERT_cds		TTCGCGCTGC	TTAACGGAGC CCAAGGGCGGT CCTCCCATGA CATTCAAC
Rat_TERT_cds_(partial)		-----	-----
Dog_TERT_cds_(partial)		TTCGCCCTGC	TGGACGGAGC GCGCGGGCGGG CCCCCCGTGG CCTTCACGAC
Consensus		TTCGCGCTGC	T--ACGG-GC CCG-GGCAG- CC-CCC-TGG CCTTCAC-AC
		350	

**Figure 10(B)**

Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	351	CAGCGTGCAGCTACCTGC CCAACACGGT GACCGACGCA CTGCGGGGGA TAGCGTGCAGCTACTTG CCAACACTGT TATTGAGACC CTGCGTGTCA CAGCGTGCAGCTACCTGC CCAACTCGGT GACTGAGTCT CTGCGCGTCA ----- CAGCGTGCAGCTACCTGC CCAACACGGT AACCGAGACC CTGCGCGGCA CAGCGTGCAGCTACCTGC CCAACACGGT -AC-GAG-C- CTGCG-G-CA	400
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	401	GCGGGGCGTG GGGGCTGCTG CTGCGCCGCG TGGGCACGA CGTGCCTGGTT GTGGTGATG GATGCTACTG TTGAGCCGAG TGGGCACGA CCTGCTGGTC GTGGTGCTTG GATGCTCTG CTGAACCGAG TGGGCACGA CTTGCTGGTC ----- GCGGCCGCTG GGGGCTGCTG CTGCGCCGCG TGGGCACGA TGTGCTCACCG G-GG-GC-TG G---GCT-CTG CTG-GCCG-G TGGGCACGA C-TGCTGGTC	450
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	451	CACCTGCTGG CACCGCTGCAGCTCTTGTG CTGGTGGCTC CCAGCTGCAGCT TACCTGCTGG CACACTGTGC TCTTTATCTT CTGGTGGCCCC CCAGCTGTGC TACCTGCTGG CCCGCTGTGC GCTTACCTG CTGGTGGCCCC CGAGCTGTGC ----- CACCTGCTGG CGCGCTGCAGCTCTG CTGGTGGCTC CGAGCTGCAGCT -ACCTGCTGG C-CGCTG-GC GCT-TA-CTG CTGGTGC-C-C C-AGCTG-GC	500
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	501	CTACCAGGTG TGCGGGCCGC CGCTGTACCA GCTCGGGCGCT GCCAC CTACCAGGTG TGTGGGCTC CCCTGTACCA AATTGTGCC ACCACGGATA CTACCAGGTG TGCGGCTCAC CCCTGTACCA AATCTGTGCC ACCGCAGAAA ----- CTACCAGGTG TGCGGGCCGC CG-TCTACGA CCTCTGCAGCC CCCGC-CTC CTACCAGGTG TGCGGG-C-C C-CTGTACCA --TCTG-GCC -CC-C-A-	550
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	551	TCAGGCC-----C-----GGC CCCCCGCCACA CGCTAGTGGAA TCTGGCCCTC TGTGTCCGCT AGTTACAGGC CCACCCGACC CGTGGGCAGG CCTGGCCCTC TGTGTCCGCT ATCTACAGGC CCACACGACC CGTGGGCAGA ----- TCTGCCGCTC -----CCGGC CC-CGCTCCC CGCTCCCCG- -CTGGCCCTC ---G-CC--- A-----G-C CC-C-CG-C- C-TGGG-----	600
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	601	CCCCGAAGGC GTCTGGGATG CGAAC---GG GCCTGGAACC ATAGCGTCAG AATTCACTA ACCTTAGTT CTTACAACAG ATCAAGAGCA GTAGTCGCCA AATTTACTC ATCTTGGATC CACACACCGG GTCAGGAACA GCAGTCACCA ----- -----CTC CCCGCTCGGC CGGCC---GG GCTCGGGACC TCAGACCC-- -AT---A--- -----AC---G --C-GA-C- G-AGTC-C-A	650
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	651	GGAGGCCGGG GTCCCCCTGG GCCTGCCAGC CCCGGGTGCG AGGAGGCCG GGAAGCACCG AAACCCCTGG CCTTGCCATC TCGAGGTACA AAGAGGCATC GGAAGCATGG AAACCCCCGG CCTTGCCATC TCGAGAGGCG AAGCGGAGTC ----- -----ACACGCCAGG CCAG---AAC TCGGCCAGCG CGGGGCAGCC GGA-GCA---G A-ACCCC-GG CC-TGCCA-C TCG-G---GCG A-G-GG-G-C	700

**Figure 10(C)**

		701			
Human_TERT_cds	GGGGCAGTGC	CAGCCGAAGT	CTGCCGTTGC	CCAAGAGGCC	CAGGGCGTGGC
Mouse_TERT_cds	TGAGTCTCAC	CAGTACAAGT	GTGCCTTCAG	CTAAGAACGC	CAGATGCTAT
Hamster_TERT_cds	TAAGCATCAC	CAATAGAAGT	GTGCCTCCAT	CTAAGAACGC	CAGGTGCGAT
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	CGGAGCGGTC	CTCTGGAAG-	-CGCC-----	-A--GG	CAGTGGCGGA
Consensus	-G-G----C	CA-T-GAAGT	GTGCC-----	C-AAGA-G-C	CAG--G---
		751			
Human_TERT_cds	GCTGCCCTG	AGCCGGAGCG	GACGCCCGTT	GGGCAGGGGT	CCTGGGCCCA
Mouse_TERT_cds	CCTGTCCCAG	GAGTGAGGAA	GGGACCCCCAC	AGGCAGGTGC	TACCAACCCC
Hamster_TERT_cds	CTGGCCCCGA	GAUTGGAGAA	GGGACCCCTAC	AGGCAGGCAG	TTCCAACCCC
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	G----C---A	GAC-----	--GGCGCCAC	AGGC-----	-CTTCCCA
Consensus	-C-G-CCCG-	G-C-GGAG--	G-G-CCC-AC	AGGCAGG-----	-CCCC
		801			
Human_TERT_cds	CCCGGGCAGG	ACGCGTGGAC	CGAGTGACCG	TGGTTTCTGT	GTGGTGTAC
Mouse_TERT_cds	ATCAGGCAA	TCATGGGTGC	CAAGTCCTGC	TCGGTCCCC	GAGGTGCCTA
Hamster_TERT_cds	ATCAGACAAA	ACATGGGTGC	CAAATCCTGC	CAAGTCCCAT	GCAGTGCCTA
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	GGC---CACA	GCTCCCTGTAG	CAAGCCGGGT	GTACACCTGC	CGGGCGCTTC
Consensus	--C-G-CA-A	-C---G-GT-C	CAAGTC--G-	-TCC--	G-GGTGCCT-
		851			
Human_TERT_cds	CTGCCAGACC	CGCCGAAGAA	GCCACCTCTT	TGGAGGGTGC	GCTCTCTGGC
Mouse_TERT_cds	-	-	-	-	-
Hamster_TERT_cds	TGCAAGAGAA	GATTTGTCTT	CTAAAGGAAA	GGTGTCTGAC	
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	TTAGTAGAAC	TACCAAGGAA	GATTTGTCTT	CCGGGGTGAA	GGCACCTGGC
Consensus	-	-	-	-	-
		901			
Human_TERT_cds	ACGCGCCACT	CCCACCCATC	CGTGGGCCGC	CAGCACACG	CGGGCCCCCCC
Mouse_TERT_cds	-	-	-	-	-
Hamster_TERT_cds	CTGAGTCTCT	CTGGGT---C	GGTGTGCTGT	AAACACAAGC	CCAGCTCCAC
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	CTGAGTCGCT	CTGGGT---C	AGTGTGCTAT	AAACACAAGC	CCAGTTCCAC
Consensus	-	-	-	-	-
		951			
Human_TERT_cds	CGGCCCCCAC	GTCCTGGGA	CACGCCTTGT	CCCCCGGTGT	
Mouse_TERT_cds	ATCTCTG---	CTGTACCAC	CCCGCCAAAA	TGCCTTTCAG	CTCAGGCCAT
Hamster_TERT_cds	ATCCCTG---	CAGTACCAC	TGTGCCAAAA	TGCCTTTCAG	CTCAGACCAT
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	CTCCGGG---	-	-GCCCGAGGG	AGTACCCCAT	GACCCAGCAC
Consensus	ATC-----G	C-GTCAACCAC	--C-CCA--A	-GC---TCA-	C-C---CAT
		1001			
Human_TERT_cds	ACGCCGAGAC	CAAGCACTTC	CTCTACTCCT	---CAGGCGA	CAAGGAGCGAG
Mouse_TERT_cds	TTATTGAGAC	CAGACATTT	CTTTACTCCA	GGGGAGATGG	CCAAGAGCGT
Hamster_TERT_cds	ATACTGAGAC	CAAACGCTTC	CTCTACTCTA	GGGAAGGTGG	CCGAGAGAGG
Rat_TERT_cds_(partial)	-	-	-	-	-
Dog_TERT_cds_(partial)	ACCCCGAGAC	CAAACGCTTC	CTCTACTGCT	CG---GGTGG	CAGGGAGCGGG
Consensus	A--C-GAGAC	CAAAC-CTTC	CTCTACTCC-	-G---AGGTGG	C---GAGCGG

**Figure 10(C)**

**Figure 10(D)**

Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1401	CCGCCAGCAC AGCAGCCCCT GGCAGGTGTA CGGCTTCGTG CGGGCCTGTC CCGCCTGCAC AGCAGTCCCT GGCAGGTATA TGGTTTCTT CGGGCCTGTC CCGTCTACAC AGCAGTCCCT GGCAGGTATA TGGCTTCTT CAGGCCTGTC ----- CCGACAGCAC AGCAGCCCCT GGCAGGTGTA TGCCCTCCTG AGGGCCTGCC CCG-C-GCAC AGCAG-CCCT GGCAGGT-TA TGGCTT-CT- CGGGCCTG-C	1450
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1451	TGCGCCGGCT GGTGCCCTCA GCCCTCTGGG GCTCCAGGCA CAACGAACGC TCTGCAAGGT GGTGTCTGCT AGTCTCTGGG GTACCAGGCA CAATGAGCGC TCGGAAAGCT GGTGCCCTCCG GGTCTCTGGG GTTCCCGGCA CAACCAGCGA ----- TGTGCTGGCT GGTGCCCACT GGACTCTGGG GCTCCAGGCA CAACCAGCGC T--GC--GCT GGTGCC--C- GG-CTCTGGG G-TCCAGGCA CAAC-AGCGC	1500
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1501	CGCTTCTCTCA GGAACACCAA GAAGTTCATC TCCCTGGGG AGCATGCCAA CGCTTCTTTA AGAACCTAAA GAAGTTCATC TCCTTGGGG AATACGGCAA CGCTTCTTTA AGAACGTGAA CGGGTTCATC TCCTTGGGG AGTATGACAA ----- CGCTTCTTGA GGAACGTGAA GAAGTTCATC TCCCTGGGAA AGCACGCTAA CGCTTCTT-A -GAAC-T-AA GAAGTTCATC TCC-TGGGG AG-A-G-CAA	1550
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1551	GCTCTCGCTG CAGGAGCTGA CGTGGAAAGAT GAGCGTGCAG GACTGCGCTT GCTATCACTG CAGGAACCTGA TGTGGAAAGAT GAAAGTAGAG GATTGCCACT GCTGTCGCTG CAGGAGCTGA CGTGGAAAGAT GAAAGTTCAA GACTGCAGGT ----- GCTCTCCCTG CAGGAACCTGA CGTGGAAAGAT GAAGGGTGCAG GACTGCACCT GCT-TC-CTG CAGGA-CTGA CGTGGAAAGAT GAA-GT-C-G GACTGC---T	1600
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1601	GGCTGCGCAG GAGCCC---- ----- AGGGGTT GGCTGTGTT GGCTCCGCAG CAGCCC---- ----- GGGGAAG GACCGTGTCC GGCTTCGCAG CAGCCC---- ----- AGGGAAC AACTGTGTCC ----- GGCTGCACGG GAACCCAGGT GAGGAGTGCA GAGTGAGCAG GTGCCTGGTT GGCT-CGCAG -AGCCCAGGG -A-GACTG--- ----- TGT-C	1650
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1651	CGGCCGCAGA G----- --CACCGTCT GCGTGA--GG AGATCCTGGC CCGCTGCAGA G----- --CACCGTCT GAGGGAA-GA GGATCCTGGC CGGCTGCAGA G----- --CACCGCAC GAGGGAA-AA GGATCCTGGC ----- GGCCTACAGG AAGGACCAGG CTCACAGCCC GAGTGTGGTA GGCCCCTCCC CGGCTGCAGA G----- --CACCG-C- GAG-GAG--A GGATCCTGGC	1700
Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	1701	CAAGTTCTG CACTGGCTGA TGAGTGTGTA CGTCGTCG--- AGCTGCT TACGTTCTG TTCTGGCTGA TGGACACATA CGTGGTAC--- AGCTGCT TGTGTTCTG TTCTGGCTGA TGGACGCGTA CGTGGTAG--- AGCTGCT ----- TCCCAACCAT CCATCTC-GG AACACCCCTT CCTCTGTTGG GCCGGCAGCG T--GTTCTG --CTGGCTGA TG-AC-C-TA CGT----GG T--AGCTGCT	1750

**Figure 10(E)**

	1751		1800
Human_TERT_cds	CAGGTCTTC TTTA-----	-	TGTCACG GAGAC--CA
Mouse_TERT_cds	TAGGTCAATT CTTTA-----	-	CATCAC A GAGAG--CA
Hamster_TERT_cds	TCGGTCATTC TTTTA-----	-	CGTCACA GAGAC--CA
Rat_TERT_cds_(partial)	-AGGTCAATT CTTTA-----	-	CATCAC A GAGAG--CA
Dog_TERT_cds_(partial)	ACTGCCCTGC CTGCCTCTCA GCCCCCGAC	TCCC GTCA AACTAGTCCC	
Consensus	-AGGTCAATT TT-----	-	TTACGTCA GA---GACCA
	1801		1850
Human_TERT_cds	CGTTCA-AA AGAA--CAGG CTCTT-----	TTTCTACCGG AAGAGTGTCT	
Mouse_TERT_cds	CATTCCA-GA AGAA--CAGG CTCTT-----	CTTCTACCGT AAGAGTGTGT	
Hamster_TERT_cds	CTTTCCA-GA AGAA--CCGG CTCTT-----	CTTCTACCGA AAGAGCATGT	
Rat_TERT_cds_(partial)	CATTCCA-GA AGAA--CAGG CTCTT-----	CTTCTACCGT AAGAGTGTGT	
Dog_TERT_cds_(partial)	CATCCCCAGA GGCTGCCGGG CTGTCCACAT	CTGCTGCCAG GAGTCATGAG	
Consensus	CATTCC-AGA AGAA--CAGG CTCT-----T	CTTCTACC-----	
	1851		1900
Human_TERT_cds	GGAGCAAGT-----	-	TGC
Mouse_TERT_cds	GGAGCAAGC-----	-	TGC
Hamster_TERT_cds	GGAGAAGGC-----	-	TGC
Rat_TERT_cds_(partial)	GGAGCAAGC-----	-	TGC
Dog_TERT_cds_(partial)	ACATCACGAA ATGAGCTCTT GGTGGCGGCC	CTCATCCCCT TACCCGGGC	
Consensus	-----G-A A-GAGTGTGT GGAGCAAGCT	-	GC
	1901		1950
Human_TERT_cds	AAAGCATTGG AATCA-----	GAC AGCA TTGAA GAGGGTGCAG	
Mouse_TERT_cds	AGAGCATTGG AGTCA-----	GCG AACAC CCTGA GAGAGTGCAG	
Hamster_TERT_cds	AGAGCATTGG AGTCA-----	GCG ATCAC CCTGA GAGAGTGCAG	
Rat_TERT_cds_(partial)	AGAGCATTGG AGTCA-----	GCG AACAC CCTGA GAGAGTGCAG	
Dog_TERT_cds_(partial)	ACACATGGCT CCTCATAGGC	TGTGCGCCAC AACTCTCAA TAGTGTGCAC	
Consensus	AGAG-----CATTGGA -GTCAG--GC AACAC CCTGA GAGAGTGCAG		
	1951		2000
Human_TERT_cds	CTGCGGGAGC TGTCGGAAGC AGAGGTCAGG CAGCATCGGG	AAGCCAGGCC	
Mouse_TERT_cds	CTACGGGAGC TGTCACAAGA GGAGGTCAGG CATCACCAGG	ACACCTGGCT	
Hamster_TERT_cds	CTACAAGAAC TGTCACAAGA AGAACGTCAGG CAGCGCCAGG	AGGCCTGGCC	
Rat_TERT_cds_(partial)	CTACGGGAGC TGTCACAAGA GGAGGTCAGG CATCACCAGG	ACACCTGGCT	
Dog_TERT_cds_(partial)	CTCCGAGAAC TGTCAGAAC AGAGGTCAGG AGACACCAGG	AAGCCAGACC	
Consensus	CTACGGGAGC TGTCACAAGA AGAGGTCAGG CA-CACCAGG A-GCCTGGCC		
	2001		2050
Human_TERT_cds	CGCCCTGCTG ACGTCCAGAC TCCGCTTCAT CCCCAAGCCT	GACGGGCTGC	
Mouse_TERT_cds	AGCCATGCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC	AACGGCCTGC	
Hamster_TERT_cds	AGCCATGCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC	AGTGGTCTTC	
Rat_TERT_cds_(partial)	AGCCATGCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC	AACGGCCTGC	
Dog_TERT_cds_(partial)	TGCTCTGCTG ACCTCCAGAC TCCGCTTCCT CCCCAAGCCT	AGTGGGCTGC	
Consensus	AGCCATGCC ATCTGCAGAC TGCGCTTCAT CCCCAAGCCC AACGG-CTGC		
	2051		2100
Human_TERT_cds	GGCCGATTGT GAACATGGAC TACGTCGTG GAGCCAGAAC	GTTC CGCAGA	
Mouse_TERT_cds	GGCCCATTGT GAACATGAGT TATAGCATGG GTACCAGAGC	TTTGGGCAGA	
Hamster_TERT_cds	GGCCCATTGT GAACATGAGT TAT---ATGG GCACCAGAGC	CTTGACAAA	
Rat_TERT_cds_(partial)	GGCCCATTGT GAACATGAGT TATAGCATGG GTACCAGAGC	TTTGGGCAGA	
Dog_TERT_cds_(partial)	GGCCGATTGT GAATATGGAC TACATCATGG GAGCCAGAAC	ATTCCACAGA	
Consensus	GGCCCATTGT GAACATGAGT TATA-CATGG G-ACCAGAGC -TT-GGCAGA		

**Figure 10(F)**

2101		2150
Human_TERT_cds	GAAAAGAGGG CCGAGCGTCT CACCTCGAGG GTGAAGGCAC TGTTCAGCGT	
Mouse_TERT_cds	AGGAAGCAGG CCCAGCATTT CACCCAGCGT CTCAAGACTC TCTTCAGCAT	
Hamster_TERT_cds	GGGAAGCAGG CTCAGCATTT CACCCAGTGT CTCAAGACTC TGTTCAGCGT	
Rat_TERT_cds_(partial)	AGGAAGCAGG CCCAGCATTT CACCCAGCGT CTCAAGACTC TCTTCAGCAT	
Dog_TERT_cds_(partial)	GACAAGAAGG TCCAGCATCT CACCTCACAA CTGAAGACAC TGTTCAGTGT	
Consensus	GGGAAGCAGG CCCAGCATTT CACCCAGCGT CTCAAGACTC TGTTCAGCGT	
		2200
2151		
Human_TERT_cds	GCTCAACTAC GAGCGGGCGC GGCGCCCCGG CCTCCTGGC GCCTCTGTGC	
Mouse_TERT_cds	GCTCAACTAT GAGCGGACAA AACATCCTCA CCTTATGGGG TCTTCTGTAC	
Hamster_TERT_cds	GCTCAACTAT GAACTGACAA AACATACTAA CCTTCTGGGG GCATCTGTAC	
Rat_TERT_cds_(partial)	GCTCAACTAT GAGCGGACAA AACATCCTCA CCTTATGGGG TCTTCTGTAC	
Dog_TERT_cds_(partial)	CCTGAACAT GAGCGGGCCC GGCGCCCCAG CCTCCTAGGG GCCTCCATGC	
Consensus	GCTCAACTAT GAGCGGACAA AACATCCT-A CCTTCTGGGG GC-TCTGTAC	
		2250
2201		
Human_TERT_cds	TGGGCCTGGA CGATATCCAC AGGGCCTGGC GCACCTTCGT GCTGCGTGTG	
Mouse_TERT_cds	TGGGTATGAA TGACATCTAC AGGACCTGGC GGGCCTTTGT GCTGCGTGTG	
Hamster_TERT_cds	TGGGCCTGAA TGATATCTAC AGGACCTGGC GGACCTTCGT ACTGCGTGTG	
Rat_TERT_cds_(partial)	TGGGTATGAA TGACATCTAC AGGACCTGGC GGGCCTTTGT GCTGCGTGTG	
Dog_TERT_cds_(partial)	TGGGCATGGA CGACATCCAC AGGGCCTGGC GCACCTTTGT GCTACGCATA	
Consensus	TGGGCATGAA TGACATCTAC AGGACCTGGC GGACCTTTGT GCTGCGTGTG	
		2300
2251		
Human_TERT_cds	CGGGCCAGG ACCCGCCGCC TGAGCTGTAC TTTGTCAAGG TGGATGTGAC	
Mouse_TERT_cds	CGTGCTCTGG ACCAGACACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC	
Hamster_TERT_cds	CGCACTCTGG ACCCAGCACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC	
Rat_TERT_cds_(partial)	CGTGCTCTGG ACCAGACACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC	
Dog_TERT_cds_(partial)	CGGGCCAGA ATCCGGCACC CCAGCTGTAC TTTGTCAAGG TGGACGTGAC	
Consensus	CG-GCTCTGG ACCCG-CACC CAGGATGTAC TTTGTTAAGG CAGATGTGAC	
		2350
2301		
Human_TERT_cds	GGGCGCGTAC GACACCATTCC CCCAGGACAG GCTCACGGAG GTCATCGCCA	
Mouse_TERT_cds	CGGGGCCTAT GATGCCATCC CCCAGGGTAA GCTGGTGGAG GTTGTGTC	
Hamster_TERT_cds	AGGGGCATAT GATGCCATCC CCCAGGACAA GCTTGTGGAG GTTATTGCCA	
Rat_TERT_cds_(partial)	CGGGGCCTAT GATGCCATCC CCCAGGGTAA GCTGGTGGAG GTTGTGTC	
Dog_TERT_cds_(partial)	GGGGGCATAT GACGCCCTCC CTCAGGACAG GCTGGTAGAG GTGATTGCCA	
Consensus	-GGGGC-TAT GATGCCATCC CCCAGGACAA GCTGGTGGAG GTTATTGCCA	
		2400
2351		
Human_TERT_cds	GCATCATCAA ACCCC---AG AACACGTACT GCGTGCCTCG GTATGCCGTG	
Mouse_TERT_cds	ATATGATCAG GCACCTGGAG AGCACGTACT GTATCCGCCA GTATGCAGTG	
Hamster_TERT_cds	ATATGATCAG ACACCCAGAC AACTCGTACT GTATCCACCA ATATGCAGTG	
Rat_TERT_cds_(partial)	ATATGATCAG GCACCTGGAG AGCACGTACT GTATCCGCCA GTATGCAGTG	
Dog_TERT_cds_(partial)	ATGTGATCAG GCCTCAGGAA AGCACATACT GCGTGCCTCGA CTATGCCGTG	
Consensus	ATATGATCAG GCAC-CGGAG AGCACGTACT GTATCCGCCA GTATGCAGTG	
		2450
2401		
Human_TERT_cds	GTCCAGAAGG CCGCCCATGG GCACGTCCGC AAGGCCTTC AAGGCCACGT	
Mouse_TERT_cds	GTCCGGAGAG ATAGCCAAGG CCAAGTCCAC AAGTCCTTA GGAGACAGGT	
Hamster_TERT_cds	GTCCAAGAG ATAGACAAGG CCAAATCCAC AAGTCCTTC GGAGACAGGT	
Rat_TERT_cds_(partial)	GTCCGGAGAG ATAGCCAAGG CCAAGTCCAC AAGTCCTTA GGAGACAGGT	
Dog_TERT_cds_(partial)	GTCCAGAGGA CTGCCCCGGGG ACACGTCCGC AAGGCCTTC AAGAACAC-	
Consensus	GTCCAGAGAG ATAGCCAAGG CCAAGTCCAC AAGTCCTTC GGAGACAGGT	

**Figure 10(G)**

	2451	2500
Human_TERT_cds	CTCTACCTTG ACAGACCTCC AGCCGTACAT GCGACAGTTC GTGGCTCACC	
Mouse_TERT_cds	CACCAACCTC TCTGACCTCC AGCCATACAT GGGCCAGTTTC CTTAACGCATC	
Hamster_TERT_cds	CTCCACCCCTC TCTGACCTCC AGCCACACAT GGGCCAGTTTC TTGAAGCATC	
Rat_TERT_cds_(partial)	CACCAACCTC TCTGACCTCC AGCCATACAT GGGCCAGTTTC CTTAACGCATC	
Dog_TERT_cds_(partial)	-----	
Consensus	C-CCACCCCTC TCTGACCTCC AGCCATACAT GGGCCAGTTTC -T-AAGCATC	
	2501	2550
Human_TERT_cds	TGCAGGAG-- ---ACCAGC CCGCTGAGGG ATGCCGTCGT CATCGAGCAG	
Mouse_TERT_cds	TGCAGGATTG AGATGCCAGT GCACTGAGGA ACTCCGTTGT CATCGAGCAG	
Hamster_TERT_cds	TTCAGGACTC AGACACCAGT GCGCTGAGGA ACTCCGTTGT CATTGAGCAG	
Rat_TERT_cds_(partial)	TGCAGGATTG AGATGCCAGT GCACTGAGGA ACTCCGTTGT CATCGAGCAG	
Dog_TERT_cds_(partial)	-----	
Consensus	TGCAGGAA-TC AGA--CCAGT GC-CTGAGGA ACTCCGTTGT CATCGAGCAG	
	2551	2600
Human_TERT_cds	AGCTCCTCCC TGAATGAGGC CAGCAGTGGC CTCTTCGACG TCTTCCTACG	
Mouse_TERT_cds	AGCATCTCTA TGAATGAGAG CAGCAGCAGC CTGTTTGACT TCTTCCTGCA	
Hamster_TERT_cds	AGCTTATCTC TGAACGAGGC CAGCAGCAGC CTGTTTGACT TCTTCCTGCG	
Rat_TERT_cds_(partial)	AGCATCTCTA TGAATGAGAG CAGCAGCAGC CTGTTTGACT TCTTCCTGCA	
Dog_TERT_cds_(partial)	-----	
Consensus	AGC-TCTCT- TGAATGAG-- CAGCAGCAGC CTGTT-GACT TCTTCCTGC-	
	2601	2650
Human_TERT_cds	CTTCATGTGC CACCACGCCG TGCGCATCAG GGGCAAGTCC TAGCTCCAGT	
Mouse_TERT_cds	CTTCCTGCGT CACAGTGTG TAAAGATTGG TGACAGGTGC TATAACGCAGT	
Hamster_TERT_cds	CTTTGTGCGT AACAGTGTG TGAAGATCGG TGGCAGGTGC TATGTCCAGT	
Rat_TERT_cds_(partial)	CTTCCTGCGT CACAGTGTG TAAAGATTGG TGACAGGTGC TATAACGCAGT	
Dog_TERT_cds_(partial)	-----	
Consensus	CTTC-TGCGT CACAGTGTG T-AAGAT-GG TG-CAGGTGC TAT---CAGT	
	2651	2700
Human_TERT_cds	GCCAGGGGAT CCCGCAGGGC TCCATCCTCT CCACGCTGCT CTGCAGCCTG	
Mouse_TERT_cds	GCCAGGGCAT CCCCCAGGGC TCCAGCCTAT CCACCCCTGCT CTGCAGTCTG	
Hamster_TERT_cds	GCCAGGGCAT CCCCCAGGGC TCCAGCCTGT CCACCCCTGCT CTGCAGTCTG	
Rat_TERT_cds_(partial)	GCCAGGGCAT CCCCCAGGGC TCCAGCCTAT CCACCCCTGCT CTGCAGTCTG	
Dog_TERT_cds_(partial)	-----	
Consensus	GCCAGGGCAT CCCCCAGGGC TCCAGCCT-T CCACCCCTGCT CTGCAGTCTG	
	2701	2750
Human_TERT_cds	TGCTACGGCG ACATGGAGAA CAAGCTGTTT GCGGGGATTC GGCGGGACGG	
Mouse_TERT_cds	TGTTTCGGAG ACATGGAGAA CAAGCTGTTT GCTGAGGTGC AGCGGGATGG	
Hamster_TERT_cds	TGTTTCGGGG ACATGGAGAA CAAGCTGTTT GCTGAAGTGC AGCAGGATGG	
Rat_TERT_cds_(partial)	TGTTTCGGAG ACATGGAGAA CAAGCTGTTT GCTGAGGTGC AGCGGGATGG	
Dog_TERT_cds_(partial)	-----	
Consensus	TGTTTCGG-G ACATGGAGAA CAAGCTGTTT GCTGAGGTGC AGCGGGATGG	
	2751	2800
Human_TERT_cds	GCTGCTCCTG CGTTTGGTGG ATGATTTCTT GTTGGTGACA CCTCACCTCA	
Mouse_TERT_cds	GTTGCTTTA CGTTTGTGTT ATGACTTTCT GTTGGTGACG CCTCACCTGG	
Hamster_TERT_cds	GCTGCTTTG CGTTTGTGTT ATGACTTTCT GTTGGTGACA CCTCACCTGG	
Rat_TERT_cds_(partial)	GTTGCTTTA CGTTTGTGTT ATGACTTTCT GTTGGTGACG CCTCACCTGG	
Dog_TERT_cds_(partial)	-----	
Consensus	G-TGCTTT- CGTTTGTG ATGACTTTCT GTTGGTGAC- CCTCAC-TGG	

**Figure 10(H)**

	2801	2850
Human_TERT_cds	CCCACGCGAA AACCTTCCTC AGGACCCTGG TCCGAGGTGT CCCTGAGTAT	
Mouse_TERT_cds	ACCAAGCAAA AACCTTCCTC AGCACCCCTGG TCCATGGCGT TCCTGAGTAT	
Hamster_TERT_cds	TCCAGGCGGA AGCCTTCCTC AGGGCCCTCG TCCGTGGCAT CCCTGAGTAC	
Rat_TERT_cds_(partial)	ACCAAGCAAA AACCTTCCTC AGCACCCCTGG TCCATGGCGT TCCTGAGTAT	
Dog_TERT_cds_(partial)	-----	
Consensus	-CCA-GC-AA AACCTTCCTC AG-ACCCCTGG TCC-TGGCGT -CCTGAGTAT	
	2851	2900
Human_TERT_cds	GGCTGCGTGG TGAACTTGCG GAAGACAGTG GTGAACTTCC CTGTAGAAGA	
Mouse_TERT_cds	GGGTGCATGA TAAACTTGCA GAAGACAGTG GTGAACTTCC CTGTGGAGCC	
Hamster_TERT_cds	GGCTGCGTGG TAAACTTGCA GAAGACAGTG GTAAACCTTC CTGTGGACGC	
Rat_TERT_cds_(partial)	GGGTGCATGA TAAACTTGCA GAAGACAGTG GTGAACTTCC CTGTGGAGCC	
Dog_TERT_cds_(partial)	-----	
Consensus	GG-TGCATGA TAAACTTGCA GAAGACAGTG GTGAACTTCC CTGTGGAGCC	
	2901	2950
Human_TERT_cds	CGAGGGCCCTG GGTGGCACGG CTTTTGTTCA GATGCCGGCC CACGGCCTAT	
Mouse_TERT_cds	TGGTACCCCTG GGTGGTGCAG CTCCATACCA GCTGCCTGCT CACTGCCTGT	
Hamster_TERT_cds	TGGTACCCCTG GATGGCACAG CTCCACACCA GCTGCCTGCT CACTGCCTGT	
Rat_TERT_cds_(partial)	TGGTACCCCTG GGTGGTGCAG CTCCATACCA GCTGCCTGCT CACTGCCTGT	
Dog_TERT_cds_(partial)	-----	
Consensus	TGGTACCCCTG GGTGG--CAG CTCCA-ACCA GCTGCCTGCT CACTGCCTGT	
	2951	3000
Human_TERT_cds	TCCCCTGGTG CGGCCTGCTG CTGGATAACCC GGACCTTGGA GGTGCAGAGC	
Mouse_TERT_cds	TTCCCTGGTG TGGCTTGCTG CTGGACACTC AGACTTTGGA GGTGTTCTGT	
Hamster_TERT_cds	TTCCCTGGTG TGGCTTACTG CTGGACACTC AGACTCTGGA GGTGCTCTGT	
Rat_TERT_cds_(partial)	TTCCCTGGTG TGGCTTGCTG CTGGACACTC AGACTTTGGA GGTGTTCTGT	
Dog_TERT_cds_(partial)	-----	
Consensus	TTCCCTGGTG TGGCTTGCTG CTGGACACTC AGACT-TGGA GGTG-TCTGT	
	3001	3050
Human_TERT_cds	GACTACTCCA GCTATGCCCG GACCTCCATC AGAGCCAGTC TCACCTTCAA	
Mouse_TERT_cds	GACTACTCAG GTTATGCCCA GACCTCAATT AAGACGAGCC TCACCTTCCA	
Hamster_TERT_cds	GACTACACTG GTTATGCCCG GACCTCAATT AAGGCCAGCC TCACCTTCCA	
Rat_TERT_cds_(partial)	GACTACTCAG GTTATGCCCA GACCTCAATT AAGACGAGCC TCACCTTCCA	
Dog_TERT_cds_(partial)	-----	
Consensus	GACTACTC-G GTTATGCC- GACCTCAATT AAG-C-AGCC TCACCTTCCA	
	3051	3100
Human_TERT_cds	CCGCGGCTTC AAGGCTGGGA GGAACATGCG TCGCAAACCTC TTTGGGGTCT	
Mouse_TERT_cds	GAGTGTCTTC AAAGCTGGGA AGACCATGCG GAACAAGCTC CTGTCGGTCT	
Hamster_TERT_cds	GCGCACCTTC AAGGCGGGGG A GGAACATGCG ACAGAACGCTC TTAGCTGTT	
Rat_TERT_cds_(partial)	GAGTGTCTTC AAAGCTGGGA AGACCATGCG GAACAAGCTC CTGTCGGTCT	
Dog_TERT_cds_(partial)	-----	
Consensus	G-G-G-CTTC AA-GCTGGGA -GA-CATGCG --ACAAGCTC -T--CGGTCT	
	3101	3150
Human_TERT_cds	TGCGGCTGAA GTGTCACAGC CTGTTTCTGG ATTTGCAGGT GAACAGCCTC	
Mouse_TERT_cds	TGCGGTTGAA GTGTCACGGT CTATTTCTAG ACTTGAGGT GAACAGCCTC	
Hamster_TERT_cds	TGCGGTTGAA GTGTCACAGT CTGTTTCTAG ACTTGAGAT GAATAGCCTT	
Rat_TERT_cds_(partial)	TGCGGTTGAA GTGTCACGGT CTATTTCTAG ACTTGAGGT GAACAGCCTC	
Dog_TERT_cds_(partial)	-----	
Consensus	TGCGGTTGAA GTGTCAC-GT CT-TTTCTAG ACTTGAGGT GAACAGCCTC	

**Figur 10(I)**

3151	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	CAGACGGTGT GCACCAACAT CTACAAGATC CTCCTGCTGC AGGGTACAG CAGACAGTCT GCATCAATAT ATACAAGATC TTCCCTGCTTC AGGCCTACAG CAGACAGTCT GTATCAATGT GTACAAGATC TTCCCTGCTTC AGGCCTACAG CAGACAGTCT GCATCAATAT ATACAAGATC TTCCCTGCTTC AGGCCTACAG CAGACAGTCT GCATCAATAT -TACAAGATC TTCCCTGCTTC AGGCCTACAG	3200
3201	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	GTTTCACGCA TGTGTGCTGC AGCTCCCATT TCATCAGCAA GTTGGAAAGA GTTCCATGCA TGTGTGATTTC AGCTTCCCTT TGACCAGCGT GTTAGGAAGA GTTCCATGCG TGTGCGCTTC AGCTTCCCTT TGACCAACAT GTTAGAAAGA GTTCCATGCA TGTGTGATTTC AGCTTCCCTT TGACCAGCGT GTTAGGAAGA GTTCCATGCA TGTGTG-TTC AGCTTCCCTT TGACCAGC-T GTTAGGAAGA	3250
3251	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	ACCCCCACATT TTTCTGCGC GTCATCTCTG ACACGGCCTC CCTCTGCTAC ACCTCACATT CTTTCTGGGC ATCATCTCCA GCCAAGCATC CTGCTGCTAT ACCCCCGATT CTTTCTGAGC ATCATCTCCA ACATAGCATC CTGCTGCTAC ACCTCACATT CTTTCTGGGC ATCATCTCCA GCCAAGCATC CTGCTGCTAT ACC-CACATT CTTTCTG-GC ATCATCTCCA -C--AGCATC CTGCTGCTA-	3300
3301	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	TCCATCCTGA AAGCCAAGAA CGCAGGGATG TCGCTGGGG CCAAGGGCGC GCTATCCTGA AGGTCAAGAA TCCAGGAATG ACACTAAAGG CC----- TCCATCCTGA AGGTCAAGAA TGCAGGAATG ACACTAAAGG CCAAGGGTGC GCTATCCTGA AGGTCAAGAA TCCAGGAATG ACACTAAAGG CC----- -C-ATCCTGA AGGTCAAGAA T-CAGGAATG ACACTAAAGG CC-----	3350
3351	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	CGCCGGCCCT CTGCCCTCCG AGGCCGTGCA GTGGCTGTGC CACCAAGCAT -TCTGGCTCC TTTCTCCTG AAGCCGCACA TTGGCTCTGC TACCAAGGCCT CTCTGGCTCA TTTCTCCTG AAGCTGCACG TTGGCTCTGC TACCAAGGCCT -TCTGGCTCC TTTCTCCTG AAGCCGCACA TTGGCTCTGC TACCAAGGCCT -TCTGGCTC- TTTCTCCTG AAGCCGCACA TTGGCTCTGC TACCA-GCCT	3400
3401	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	TCCTGCTCAA GCTGACTCGA CACCGTGTCA CCTACGTGCC ACTCCTGGGG TCCTGCTCAA GCTGGCTGCT CATTCTGTCA TCTACAAATG TCTCCTGGGA TCCTGCTCAA GCTGGCTGGT CATTCTGTCA CCTACAAGTG TCTCCTGGGA TCCTGCTCAA GCTGGCTGCT CATTCTGTCA TCTACAAATG TCTCCTGGGA TCCTGCTCAA GCTGGCTG-T CATTCTGTCA -CTACAA-TG TCTCCTGGGA	3450
3451	Human_TERT_cds Mouse_TERT_cds Hamster_TERT_cds Rat_TERT_cds_(partial) Dog_TERT_cds_(partial) Consensus	TCACTCAGGA CAGCCCCAGAC GCAGCTGAGT CGGAAGCTCC CGGGGACGAC CCTCTGAGGA CAGCCCCAAA ACTGCTGTGC CGGAAGCTCC CAGAGGCGAC CCTCTCAGGA CAGCCCCAAA ACAGCTGTGC CGGAAGCTCC CAAGGGCAAC CCTCTGAGGA CAGCCCCAAA ACTGCTGTGC CGGAAGCTCC CAGAGGCGAC CCTCT-AGGA CAGCCCCAAA AC-GCTGTGC CGGAAGCTCC CAG-GGCGAC	3500

### Figur 10(j)

	3501	3550
Human_TERT_cds	GCTGACTGCC	CTGGAGGCCG
Mouse_TERT_cds	AATGACCATC	CTTAAAGCTG
Hamster_TERT_cds	AATGGCCATC	CTTGAGACTG
Rat_TERT_cds_(partial)	AATGACCATC	CTTAAAGCTG
Dog_TERT_cds_(partial)	- - - - -	- - - - -
Consensus	AATGACCATC	CTT-A-GCTG
		CAGCTGACCC
		AGCCCTAACGC
		ACAGACTTTC
	3551	3562
Human_TERT_cds	AGACCATTCT	GGACTGA
Mouse_TERT_cds	AGACCATTCT	GGACTAA
Hamster_TERT_cds	AGACCATTCT	GGACTAA
Rat_TERT_cds_(partial)	AGACCATTCT	GGACTAA
Dog_TERT_cds_(partial)	- - - - -	- - - - -
Consensus	AGACCATTCT	GGACTAA